



SEQUENCE LISTING

<110> LARSEN, BJARNE DUE

<120> PHARMACOLOGICALLY ACTIVE PEPTIDE CONJUGATES HAVING A  
REDUCED TENDENCY TOWARDS ENZYMATIC HYDROLYSIS

<130> 55508 (45487)

<140> 09/341,590

<141> 1999-07-12

<150> DK 0317/98

<151> 1998-03-09

<160> 122

<170> PatentIn Ver. 2.1

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<400> 1

Tyr Xaa Gly Phe Cys

1

5

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Tyr Xaa Gly Phe Cys Arg Pro Ala

1

5

<210> 3

<211> 6

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TECH CENTER 1600/2000

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Tyr Xaa Gly Phe Xaa Arg Gly  
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Tyr Xaa Gly Phe Xaa Phe Ala  
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Trp Ala Gly Gly Asp Ala Ser Gly Glu Lys Glu Lys Glu Lys Glu  
1 5 10 15

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Trp Ala Gly Gly Asp Ala Ser Gly Glu Glu Glu Glu Glu Glu  
1 5 10 15

<210> 10  
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<223> Description of Artificial Sequence: Leu-enkephalin-(Glu)6

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Tyr Gly Gly Phe Leu Glu Glu Glu Glu Glu  
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Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys Lys  
1 5 10

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<210> 13  
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<400> 13

Cys Tyr Ile Gln Asn Cys Pro Leu Gly  
1 5

<210> 14  
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Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala  
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<213> Homo sapiens

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<400> 15  
Ala Leu Leu Glu Thr Tyr Cys Ala Thr Pro Ala Lys Ser Glu  
1 5 10

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<223> insulin-like growth factor I (30-41)

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Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr  
1 5 10

<210> 17  
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<223> insulin-like growth factor I (24-41)

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Tyr Phe Asn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro  
1 5 10 15  
Gln Thr

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Ser Arg Val Ser Arg Arg Ser Arg  
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His Xaa Ala Trp Xaa Lys  
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<223> beta-Interleukin I (163-171)

<400> 22  
Val Gln Gly Glu Glu Ser Asn Asp Lys  
1 5

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<400> 23  
Ile Leu Asn Gly Ile Asn Asn Tyr Lys Asn Pro Lys Leu  
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Leu Thr Phe Lys Phe Tyr Met Pro Lys Lys Ala  
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<223> exendin-4

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
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<210> 26  
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<213> Heloderma horridum

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<223> exendin-3

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His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
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Ser Gly Ala Pro Pro Pro Ser  
35

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<223> Cys (Acm)

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Glu Glu Tyr Leu  
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<223> D-Phe

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Xaa Pro Arg Pro Gly Gly Gly Asn Gly Asp Phe Glu Glu Ile Pro  
1 5 10 15  
Glu Tyr Leu

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<223> C-type natriuretic peptide (1-53)

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Asp Leu Arg Val Asp Thr Lys Ser Arg Ala Ala Trp Ala Arg Leu Leu  
1 5 10 15  
Gln Glu His Pro Asn Ala Arg Lys Tyr Lys Gly Ala Asn Lys Lys Gly  
20 25 30  
Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met  
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Ser Gly Leu Gly Cys  
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<223> Description of Artificial Sequence: Mini ANP

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<400> 31
Met Cys His Xaa Gly Gly Arg Met Asp Arg Ile Ser Cys Tyr Arg
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<213> Artificial Sequence

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<220>
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<222> (1)
<223> Nle

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<221> MOD_RES
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<223> D-Phe

<400> 32
Xaa Asp His Xaa Arg Trp Lys
 1           5

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<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: thymosin alpha 1

<400> 33
Ser Asp Ala Ala Val Asp Thr Ser Ser Glu Ile Thr Thr Lys Asp Leu
 1           5           10          15

Lys Glu Lys Lys Glu Val Val Glu Glu Ala Glu Asn
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<223> Description of Artificial Sequence: ornipressin

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<223> Orn

<400> 34
Cys Phe Ile Gln Asn Cys Pro Xaa Gly
    1           5

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<223> D-Trp

<220>
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<223> Thr-ol

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Xaa Cys Phe Xaa Lys Thr Cys Xaa
    1           5

<210> 36
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<400> 36
Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
    1           5           10          15

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Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val  
20 25 30

Gly Ser Lys Ala Phe  
35

<210> 37  
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<400> 37  
Tyr Pro Trp Phe  
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<400> 38  
Tyr Pro Phe Phe  
1

<210> 39  
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<400> 39  
Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn  
1 5 10 15

Gln

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<400> 40  
Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His  
1 5 10

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<213> Homo sapiens

<220>  
<223> adrenomedullin (1-12)

<400> 41  
Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg  
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Gly Pro Xaa Gly Ala Gly  
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<400> 43  
Ile Leu Pro Trp Lys Trp Pro Trp Trp Pro Trp Arg Arg  
1 5 10

<210> 44  
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<212> PRT  
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<400> 44  
Gly Phe Gln Glu Ala Tyr Arg Arg Phe Tyr Gly Pro Val  
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<223> Description of Artificial Sequence: cortistatin 29 (1-13)

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<400> 45  
Xaa Glu Arg Pro Pro Leu Gln Gln Pro Pro His Arg Asp  
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<212> PRT  
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<223> cortistatin 14

<400> 46  
Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys  
1 5 10

<210> 47  
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<223> Description of Artificial Sequence: PD-145065

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<400> 47  
Xaa Leu Asp Ile Ile Trp  
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<210> 48  
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<223> D-Dip

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<210> 49

<211> 12

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inhibitor peptide

<400> 49

His His Leu Gly Gly Ala Lys Gln Ala Gly Asp Val  
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<210> 50

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<220>

<223> leptin (93-105)

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Asn Val Ile Gln Ile Ser Asn Asp Leu Glu Asn Leu Arg  
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<223> D-Pro

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<400> 51  
Xaa Ala Xaa Phe Xaa Pro Xaa  
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<210> 52  
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<223> Tyr-W-MIF-1

<400> 52  
Tyr Pro Trp Gly  
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<210> 53  
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<223> parathyroid hormone related peptide (107-111)

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Thr Arg Ser Ala Trp  
1 5

<210> 54  
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<220>  
<223> angiotensinogen (1-14)

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<210> 55  
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Lys Lys Lys Lys  
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<210> 56  
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<220>  
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Lys Lys Lys Lys Lys  
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<210> 57  
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Glu, Arg, His, Met, Orn, Dbu or Dpr

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Xaa Lys Lys Lys Lys  
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<210> 58  
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<400> 58  
Lys Xaa Lys Lys Lys  
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Lys Lys Xaa Lys Lys  
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Glu, Arg, His, Met, Orn, Dbu or Dpr

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Glu, Arg, His, Met, Orn, Dbu or Dpr

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Lys Lys Lys Xaa Lys Lys  
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Lys Lys Lys Lys Xaa Lys  
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<210> 68  
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Glu, Arg, His, Met, Orn, Dbu or Dpr

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<222> (5)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 72  
Xaa Lys Lys Lys Xaa Lys  
1 5

<210> 73  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (1)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (6)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 73  
Xaa Lys Lys Lys Lys Xaa  
1 5

<210> 74  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (2)..(3)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 74  
Lys Xaa Xaa Lys Lys Lys  
1 5

<210> 75  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (2)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (4)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
      Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 75  
Lys Xaa Lys Xaa Lys Lys  
      1                      5

<210> 76  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (2)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
      Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (5)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
      Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 76  
Lys Xaa Lys Lys Xaa Lys  
      1                      5

<210> 77  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (2)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
      Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (6)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
      Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 77  
Lys Xaa Lys Lys Lys Xaa  
1 5

<210> 78  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (3)..(4)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 78  
Lys Lys Xaa Xaa Lys Lys  
1 5

<210> 79  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (3)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (5)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 79  
Lys Lys Xaa Lys Xaa Lys  
1 5

<210> 80  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (3)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (6)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 80  
Lys Lys Xaa Lys Lys Xaa  
1 5

<210> 81  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (4)..(5)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 81  
Lys Lys Lys Xaa Xaa Lys  
1 5

<210> 82  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (4)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<220>  
<221> MOD\_RES  
<222> (6)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 82

Lys Lys Lys Xaa Lys Xaa  
1 5

<210> 83  
<211> 6  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<220>  
<221> MOD\_RES  
<222> (5)..(6)  
<223> May be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,  
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 83  
Lys Lys Lys Lys Xaa Xaa  
1 5

<210> 84  
<211> 6  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<400> 84  
Lys Glu Lys Glu Lys Glu  
1 5

<210> 85  
<211> 6  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<400> 85  
Glu Lys Glu Lys Glu Lys  
1 5

<210> 86  
<211> 6  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<400> 86  
Lys Lys Lys Glu Glu Glu  
1 5

<210> 87  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Stabilizing peptide

<400> 87  
Glu Glu Glu Lys Lys Lys  
1 5

<210> 88  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: GHRH (1-44)-Lys6

<400> 88  
Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu Lys Lys Lys  
35 40 45

Lys Lys  
50

<210> 89  
<211> 50  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: GHRH (1-44)-Glu6

<400> 89  
Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln  
1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly  
20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu Glu Glu Glu  
35 40 45

Glu Glu  
50

<210> 90  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Lys6-PTH (1-34)

<400> 90  
Lys Lys Lys Lys Lys Ser Val Ser Glu Ile Gln Leu Met His Asn  
1 5 10 15

Leu Gly Lys His Leu Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys  
20 25 30

Lys Leu Gln Asp Val His Asn Phe  
35 40

<210> 91  
<211> 40  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PTH (1-34)-Lys6

<400> 91  
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30

Asn Phe Lys Lys Lys Lys Lys  
35 40

<210> 92  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: GLP-1 (7-36)-Lys6

<400> 92  
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys  
20 25 30

Lys Lys Lys Lys  
35

<210> 93  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: EMP-1-Lys6

<220>  
<221> MOD\_RES  
<222> (6)  
<223> Cys (Acm)

<220>  
<221> MOD\_RES  
<222> (15)  
<223> Cys (Acm)

<400> 93  
Gly Gly Thr Tyr Ser Xaa His Phe Gly Pro Leu Thr Trp Val Xaa Lys  
1 5 10 15

Pro Gln Gly Gly Lys Lys Lys Lys Lys Lys  
20 25

<210> 94  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Lys6-EMP-1

<220>  
<221> MOD\_RES  
<222> (12)  
<223> Cys (Acm)

<220>  
<221> MOD\_RES  
<222> (21)  
<223> Cys (Acm)

<400> 94  
Lys Lys Lys Lys Lys Lys Gly Gly Thr Tyr Ser Xaa His Phe Gly Pro  
1 5 10 15

Leu Thr Trp Val Xaa Lys Pro Gln Gly Gly  
20 25

<210> 95  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Lys6-EMP-1-Lys6

<220>  
<221> MOD\_RES  
<222> (12)  
<223> Cys(Acm)

<220>  
<221> MOD\_RES  
<222> (21)  
<223> Cys(Acm)

<400> 95  
Lys Lys Lys Lys Lys Lys Gly Gly Thr Tyr Ser Xaa His Phe Gly Pro  
1 5 10 15  
Leu Thr Trp Val Xaa Lys Pro Gln Gly Gly Lys Lys Lys Lys Lys  
20 25 30

<210> 96  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: GHRP-(Lys)6

<220>  
<221> MOD\_RES  
<222> (1)  
<223> Aib

<220>  
<221> MOD\_RES  
<222> (3)  
<223> 2-D-Nal

<220>  
<221> MOD\_RES  
<222> (4)  
<223> D-Phe

<400> 96  
Xaa His Xaa Xaa Lys Lys Lys Lys Lys Lys Lys  
1 5 10

<210> 97  
<211> 11  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Leu-enkephalin-Lys-Lys-Glu-Glu-Glu-Lys

<400> 97

Tyr Gly Gly Phe Leu Lys Lys Glu Glu Glu Lys  
1 5 10

<210> 98

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Leu-enkephalin-Lys-Glu-Glu-Glu-Lys

<400> 98

Tyr Gly Gly Phe Leu Lys Glu Glu Glu Lys  
1 5 10

<210> 99

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Leu-enkephalin (Lys-Glu)3

<400> 99

Tyr Gly Gly Phe Leu Lys Glu Lys Glu Lys Glu  
1 5 10

<210> 100

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Leu-enkephalin-(Dpr)6

<220>

<221> MOD\_RES

<222> (6)..(11)

<223> Dpr

<400> 100

Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10

<210> 101

<211> 11  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Lys6-Leu-enkephalin

<400> 101

Lys Lys Lys Lys Lys Lys Tyr Gly Gly Phe Leu  
1 5 10

<210> 102

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
Lys6-Leu-enkephalin-Lys6

<400> 102

Lys Lys Lys Lys Lys Lys Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys  
1 5 10 15

Lys

<210> 103

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<223> GnRH-Lys6

<400> 103

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Lys Lys Lys Lys Lys Lys  
1 5 10 15

<210> 104

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: GnRH- (Lys-Glu)3

<400> 104

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Lys Glu Lys Glu Lys Glu  
1 5 10 15

<210> 105

<211> 40

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PTH 1-34 (Lys-Glu)3

<400> 105  
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15  
  
Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30  
  
Asn Phe Lys Glu Lys Glu Lys Glu  
35 40

<210> 106  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Leu-enkephalin- (Orn)6

<220>  
<221> MOD\_RES  
<222> (6)..(11)  
<223> Orn

<400> 106  
Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10

<210> 107  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Leu-enkephalin- (Dbu)6

<220>  
<221> MOD\_RES  
<222> (6)..(11)  
<223> Dbu

<400> 107  
Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10

<210> 108  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Leu-enkephalin-(Dpr)6

<220>  
<221> MOD\_RES  
<222> (6)..(11)  
<223> Dpr

<400> 108  
Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10

<210> 109  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Leu-enkephalin-Lys10

<400> 109  
Tyr Gly Gly Phe Leu Lys  
1 5 10 15

<210> 110  
<211> 9  
<212> PRT  
<213> Homo sapiens

<220>  
<223> DSIP

<400> 110  
Trp Ala Gly Gly Asp Ala Ser Gly Glu  
1 5

<210> 111  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Substance P-Lys6

<400> 111  
Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Lys Lys Lys Lys Lys  
1 5 10 15  
**Lys**

<210> 112  
<211> 11

<212> PRT  
<213> Homo sapiens

<220>  
<223> Substance P

<400> 112  
Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met  
1 5 10

<210> 113  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Lys6-Substance P

<400> 113  
Lys Lys Lys Lys Lys Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu  
1 5 10 15

Met

<210> 114  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Lys6-GH<sub>R</sub>P

<220>  
<221> MOD\_RES  
<222> (7)  
<223> Aib

<220>  
<221> MOD\_RES  
<222> (9)  
<223> 2-D-Nal

<220>  
<221> MOD\_RES  
<222> (10)  
<223> D-Phe

<400> 114  
Lys Lys Lys Lys Lys Lys Xaa His Xaa Xaa Lys  
1 5 10

<210> 115  
<211> 10  
<212> PRT

<213> Homo sapiens

<220>

<223> GnRH

<220>

<221> MOD\_RES

<222> (1)

<223> pGlu

<400> 115

Xaa His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5 10

<210> 116

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Lys6-GnRH

<400> 116

Lys Lys Lys Lys Lys Gln His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5 10 15

<210> 117

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: EMP-1

<400> 117

Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys  
1 5 10 15

Pro Gln Gly Gly

20

<210> 118

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<223> GLP-1-(7-36)

<400> 118

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg

20

25

30

<210> 119  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<223> PTH (1-34)

<400> 119  
Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn  
1 5 10 15  
  
Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His  
20 25 30

Asn Phe

<210> 120  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
Leu-enkephalin-Lys-(Glu)3-(Lys)2

<400> 120  
Tyr Gly Gly Phe Leu Lys Glu Glu Glu Lys Lys  
1 5 10

<210> 121  
<211> 11  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Leu-enkephalin-(Glu2-Lys-Glu3)

<400> 121  
Tyr Gly Gly Phe Leu Glu Glu Lys Glu Glu Glu  
1 5 10

<210> 122  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
peptide

<400> 122  
Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Lys Lys Lys  
1 5 10 15  
Lys Lys Lys